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**CATALOGUE OF THE OWLS IN THE COLLECTION OF THE
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA.**

BY WITMER STONE.

In the following list I have not followed Mr. Sharpe's Catalogue of Birds in the arrangement of the genera and species as was done in the Catalogue of the Muscicapidæ (Proc. Phila. Acad. 1889, p. 146), since his work seems to differ in this respect from most of the recent works on the subject. But, having adopted the names and arrangement of the North American species, as given in the A. O. U. Check List, I have endeavored to interpolate the foreign genera and species in their proper places, and to make the nomenclature conform, as nearly as possible, to the code of the American Ornithologists' Union.

The total number of species and subspecies of Striges seems to be somewhat over 200 and of these the Academy collection contains 113, represented by 525 specimens including the types of 14 species.

The principal individual collections to which the specimens belong are as follows :

Massena collection, covering the whole world.

Gould collection, Australia.

Boys collection, India.

DuChaillu collection, West Africa.

Prince Momfanoi collection, Siam.

Pease and D'Oca collections, Mexico.

Townsend collection, Western N. A. and Sandwich Islands.

Cassin and Krider collections, mainly N. A.

Abbott collection of skins, North America and West Indies.

The majority of these were contained in the private collection of Dr. Thomas B. Wilson and were presented by him to the Academy.

After each species are given the localities from which the Academy has specimens.

Family STRIGIDÆ.

STRIX ALUCO Linn. (= *S. flammea* of authors.)

Specimens from France and Liberia.

STRIX ALUCO JAVANICA. (Gm.)

India, specimens collected by Capt. Boys.

STRIX ALUCO DELICATULA. (Gould.)

Types, from Australia, Gould's collection.

STRIX PRATINCOLA Bonap.

Specimens from Penn., N. J., N. Y., Dist. of Col. and Cal.

STRIX PRATINCOLA PERLATA. (Licht.)

One from Brazil and two from Nicaragua, probably the latter belong to the race *guatemalae* Ridgw., but I cannot distinguish them from the South American bird.

STRIX PRATINCOLA FURCATA. (Temm.)

Several specimens from Cuba.

STRIX NOVAE-HOLLANDIAE Steph.

A series from N. and S. Australia and N. S. Wales, Gould collection.

STRIX CASTANOPS Gould.

Types of the species from Tasmania, Gould's collection.

STRIX TENEBRICOZA Gould.

Type of the species from New South Wales; also one from the Massena collection.

STRIX CANDIDA Tick.

One specimen from India.

STRIX CAPENSIS Smith.

Three specimens from Cape of Good Hope.

RHODILUS BADIUS. (Horsf.)

One specimen from India, Capt. Boys' collection.

Family BUBONIDAE.**ASIO OTUS.** (Linn.)

A series from Europe, Rivoli collection.

ASIO WILSONIANUS. (Less.)

A series from Pennsylvania and New Jersey.

ASIO MADAGASCARIENSIS. (Smith.)

One male, Madagascar.

ASIO CAPENSIS. (Smith.)

Specimens from South Africa and Morocco.

ASIO ACCIPITRINUS. (Pall.)

Specimens from Pennsylvania, New Jersey, California; South America, India and France; also one specimen from the Sandwich Islands (*A. sandvicensis* Blyth.) collected by J. K. Townsend, M. D.

PULSATRIX PERSPICILLATA. (Lath.)

Young in various stages of plumage also adult male and female, from Brazil, Nicaragua and Jalapa, Mexico. There is also a specimen from Peru which seems to differ from any described phase of this species. It is uniform chocolate brown above, lighter than *perspicillata* and showing a tendency to darker coloration on the head, the breast and throat are chocolate uniform with the back, the white being confined to a spot on the chin, the rest of the under surface is fulvous, the white spots on the wing coverts are much less marked than in *perspicillata* and are suffused with fulvous. Mr. Ridgway, whom I consulted about this specimen, writes me that there is in the National Museum "one specimen with no white whatever on the chin, while a large majority have no trace of white or light colored markings on the wing coverts." I think it probable, therefore, considering the variation in this group, that this is merely a phase of *perspicillata* rather than a distinct species or race.

CICCABA HULULA. (Daud.)

Several specimens from South America.

CACCIBA NIGROLINEATA. (Scl.)

Jalapa, Mexico, from the D'Oca collection.

CICCABA VIRGATA. (Cass.)

Specimens from Mexico, Cayenne, Bogota and Trinidad. Some of the South American specimens are in all probability Mr. Cassin's types, but there are no data to show which they are.

CICCABA SUPERCILANS. (Peltz.) Brazil.*CICCABA ALBOGULARIS.* (Cass.)

Several specimens from South America including the types of the species.

CICCABA HYLOPHILA. (Temm.) Columbia and Brazil.

[The species of the old genus *Syrnium* form a very perplexing group when a subdivision is attempted. The northern genus *Scotiaptex* is easily separable; then there are the typical *Syrniums* from the more northern portions of both continents, the species varying more and more from the type as they go south. I have followed Sclater and Salvin in grouping the South American naked-toed species together in the genus *Ciccaba*. The African forms seem to vary in much the same way, but for convenience I have left them as well as all the other old world species in the genus *Syrnium*. The synonymy of the generic names which have been applied to these species seems to be considerably involved.]

SYRNIUM NUCHALE Sharpe.

Rivers Moonda and Ogobai, West Africa collected by DuChaillu.

SYRNIUM WOODFORDI. (Smith). Cape of Good Hope.

SYRNIUM LEPTOGRAMMICUM. (Temm.) Sumatra.

SYRNIUM NEWARENSE. (Hodgs.) Malabar.

SYRNIUM OCELLATUM Less. India.

SYRNIUM SINENSE. (Lath.) Java.

SYRNIUM NIVICOLUM Hodgs. India.

SYRNIUM STRIDULUM. (Linn.) (= *S. aluco*, authors.)

Specimens from France, Sweden and Algeria.

SYRNIUM NEBULOSUM. (Forst.)

Specimens from Pennsylvania and New Jersey.

SYRNIUM URALENSE. (Pall.)

Sweeden, from Kinberg's collection.

SYRNIUM URALENSE FUSCESCENS. (Tem. and Schl.)

One specimen from Japan.

SCOTIAPTEX CINEREUM. (Gm.)

One specimen collected by J. K. Townsend in the Rocky Mts.

SCOTIAPTEX CINEREUM LAPPONICUM. (Retz.)

One typical specimen from Russia, and another marked "Northern Europe" which is darker with considerable rufous on the hind neck.

NYCTALA TENGMALMI. (Gm.) France.

NYCTALA TENGMALMI RICHARDSONI. (Bonap.)

"Fort Resolution, Hudson Bay Terr.," presented by the Smithsonian Institution.

NYCTALA ACADICA. (Gmel.)

Pennsylvania and other parts of the United States. Also one from Cassin's collection marked Bogota.

NYCTALATINUS HARRISI (Cass.)

One specimen which is in all probability the type though it bears no label whatever.

MEGASCOPS SCOPS. (Linn.)

Specimens from France, Senegal and one from the Himalayas which seems to be identical with European specimens, though it should perhaps be referred to the race *pennatus*.

MEGASCOPS SCOPS CAPENSIS (Smith.)

A distinct dark race represented by several specimens from Cape of Good Hope.

MEGASCOPS SCOPS HENDERSONII. (Cass.)

Types. A male and female marked "Off Novo Redonda, came on board." These birds are smaller than any other specimens of

Megascops in the collection and seem to constitute a distinct race. They are very bright in their markings and are much lighter on the back than South African specimens.

MEGASCOPS SUNIA. (Hodgs.) India.

MEGASCOPS ELEGANS. (Cassin.)

One specimen from Japan, type of the species. I do not think this is the bird described by Sharpe under *Scops elegans* from China, as his description does not suit the type before me. *M. elegans* seems to me to be more nearly related to *M. menadensis* from the Celebes. (See also Stejneger, Proc. U. S. Nat. Mus. 1886, p. 640.)

MEGASCOPS MAGICUS. (Müll.)

A specimen from Siam is doubtfully referred to this species.

MEGASCOPS MAGICUS MENADENSIS. (Q. & G.) Celebes.

MEGASCOPS MAGICUS LEUCOSPILUS. (Gray.) India.

MEGASCOPS LETTIA. (Hodgs.)

Specimens collected in India by Capt. Boys and compared with the type by Dr. T. B. Wilson. July 1851.

MEGASCOPS LEMPIJI. (Horsf.)

Specimens from Java, Borneo and India.

MEGASCOPS RUFESCENS. (Horsf.)

Specimens from Sumatra.

MEGASCOPS SAGITTATUS. (Cassin.)

Three specimens from Malacca, types of the species.

MEGASCOPS LEUCOTIS. (Temm.)

Four specimens from Fazogloa. This is a very distinct species and reminds one of an Indian *Bubo* in miniature.

MEGASCOPS ASIO. (Linn.)

Series from Pennsylvania and New Jersey.

MEGASCOPS ASIO MACCALLII. (Cass.)

One immature bird from New Mexico.

MEGASCOPS ASIO SEMITORQUES. (Schl.)

Specimens from Japan.

MEGASCOPS BRASILIANUS. (Gm.)

Series from Cayenne, Brazil, etc.

MEGASCOPS BRASILIANUS GUATEMALAE (Sharpe)?

Several specimens doubtfully referred to this race.

MEGASCOPS BRASILIANUS USTUS. (Schl.)

Specimens from Peru and Columbia.

MEGASCOPS BRASILIANUS WATSONI. (Cassin.)

Type of the species from Orinoco.

MEGASCOPS BARBARUS. (Scl. and Salv.)

One darkly colored specimen from Mexico.

There is another *Megascops* (No. 2442) from Panama, reddish-brown above with very fine transverse markings, and marked below with rufous cross bars, very fine and very close together so as to appear nearly uniform on the breast. This specimen does not agree well with any described phase, but is perhaps related to *barbarus*.

MEGASCOPS COOPERI. (Ridgway.)

One specimen agreeing well with Mr. Ridgway's description and easily distinguished by the bristly toes from any member of the *brasilianus* group to which it approaches in coloration.

LOPHOSTRIX CRISTATA. (Daud.)

Four specimens from Cayenne representing both phases of plumage.

SCOTOPELIA PELI. Bp.

One immature specimen from W. Africa collected by DuChaillu.

KETUPA CEYLONENSIS. (Gm.)

Specimens from Bengal and two from Capt. Boys' collection.

KETUPA JAVENSIS Less.

Specimens from Java, Sumatra and India.

BUBO BUBO. (Linn.) France and Switzerland.

BUBO VIRGINIANUS. (Gm.) Pennsylvania and New Jersey.

BUBO VIRGINIANUS SUBARCTICUS. (Hoy.)

Specimens from Iowa and California and also the type taken in Wisconsin, presented by Dr. Hoy.

BUBO VIRGINIANUS MAGELLANICUS. (Gm.)

Specimens from South America.

BUBO MEXICANUS. (Gm.)

Specimens from Cayenne.

BUBO BENGALENSIS. (Frank.)

India. Collected by Capt. Boys.

BUBO ASCALAPHUS Sav. Morocco and Egypt.

BUBO CAPENSIS Smith. Cape of Good Hope.

BUBO MACULOSUS. (Vieill.) Cape of Good Hope.

BUBO CINERASCENS Guér. Fazogloa.

BUBO LACTEUS. (Temm.) Senegal, W. Africa.

BUBO COROMANDUS. (Lath.) India, collected by Capt. Boys.

BUBO NIPALENSIS Hodgs. Himalayas.

BUBO ORIENTALIS. (Horsf.) India and Java.

BUBO LEUCOSTICTUS Hartl.

Moonda river, W. Africa, collected by DuChaillu.

NYCTEA NYCTEA. (Linn.)

Specimens from New Jersey, and some from northern Europe.

SURNIA ULULA. (Linn.) Europe.

SURNIA ULULA CAPARACH. (Müll.) Nova Scotia.

SPEOTYTO CUNICULARIA. (Molina.) Bolivia and Peru.

SPEOTYTO CUNICULARIA HYPOGAEA. (Bonap.)

Specimens from California, Oregon and New Mexico.

SPEOTYTO CUNICULARIA FLORIDANA. Ridgw.

One specimen from the west coast of Florida.

GYMNASIO NUDIPIES. (Daud.)

Two specimens from St. Thomas, W. I.

GYMNASIO LAWRENCII. (Scl. & Salv.) Cuba.

ATHENE NOCTUA. (Scop.) France and Algeria.

ATHENE BRAMA. (Temm.) India.

NINOX LUGUBRIS. (Tick.) India.

NINOX SCUTELLATA. (Raffl.) Sumatra.

NINOX BOOBOOK. (Lath.)

S. and W. Australia, from Gould's collection.

NINOX NOVAE-ZEALANDIAE. (Gm.) New Zealand.

NINOX MACULATA. (Vig. & Horsf.) Tasmania.

NINOX PUNCTULATA. (Q. & G.) Celebes.

NINOX CONNIVENS. (Lath.)

New South Wales. Gould's collection.

NINOX STRENUA. (Gould.)

Types of the species from New South Wales, Gould's collection.

Also the type of *Athene rufa* Gould, which seems to be a phase of this species, from Pt. Essington, North Australia.

GLAUCIDIUM PASSERINUM. (Linn.) France.

GLAUCIDIUM GNOMA. Wagl.

California and Washington Territory.

GLAUCIDIUM PUMILUM. (Temm.)

Two specimens, one from S. America and the other with no locality. These are the specimens described by Ridgway, Proc. Bos. Soc. Nat. Hist. 1873, pp. 97 and 98.

GLAUCIDIUM SIJU D'Orb. Cuba.

GLAUCIDIUM NANUM. (King.) South America.

GLAUCIDIUM JARDINII. (Bonap.)

New Grenada and Brazil including the types of *G. lamsbergii* Ridgw. (Proc. Boston Soc. Nat. Hist. 1873, p. 98). Dr. Wilson's name is written "*lamsbergii*" on the stands.

GLAUCIDIUM PHALAENOIDES. (Daud.)

A large series of specimens in both phases of plumage, varying in both size and coloration.

GLAUCIDIUM BRODIEI. (Burton.) India.

GLAUCIDIUM PERLATUM. (Vieill.) Senegal and South Africa.

GLAUCIDIUM RADIATUM. (Tick.) Himalayas.

GLAUCIDIUM CASTANOPTERUM. (Horsf.) Java.

GLAUCIDIUM CUCULOIDES. (Gould.) India.

MICROPALLAS WHITNEYI. (Cooper.)

One specimen from Arizona, presented by the Philadelphia Zoological Society.